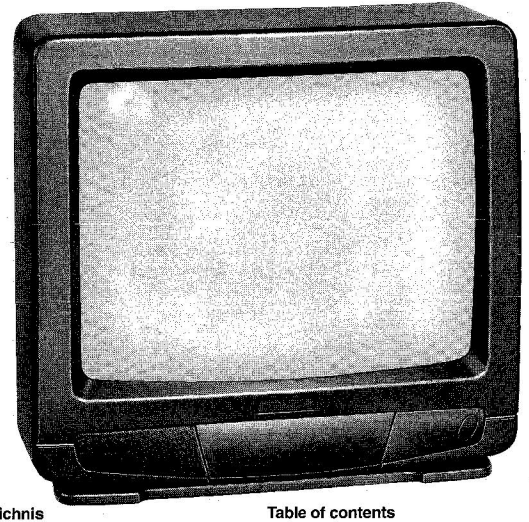
Schneider

Fernsehempfänger

STV 3663 Pal

Ident-Nr. 68 434
Ident-Nr. 68 435

Serviceanweisung
Service manual



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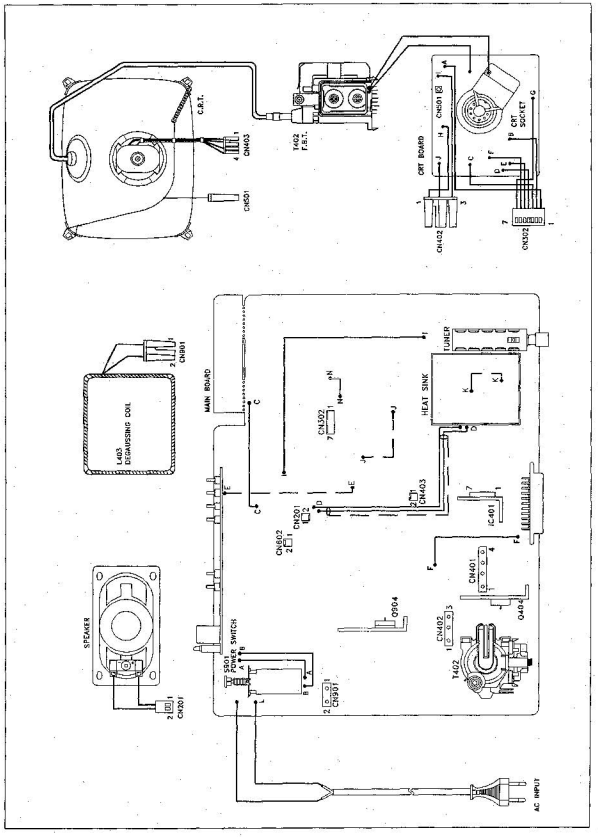
This service manual was only made for authorized specialists.
For interventions by not authorized persons SCHNEIDER doesn't take possession of liability.

Verdrahtungsplan
Wiring diagram



ALIGNMENT INSTRUCTION

I. PLEASE READ BEFORE ATTEMPTING SERVICE

1. Never disconnect any leads while receiver is in operation.
2. Disconnect all power before attempting any repairs.
3. Do not short any portion of the circuit while power is on.
4. For safety reasons, all parts replaced should be identical, (for parts and part numbers see parts list).
5. Before alignment the set must be pre-heated for 30 minutes or more and erase magnetism thoroughly from CRT front chassis frame by erase coil.

II. TEST EQUIPMENT

1. VIF Sweep Generator
2. SIF Sweep Generator
3. Colour Bar/Dot/Cross Hatch Generator
4. DC Power Supply (14V)
5. Oscilloscope
6. Vacuum Tube Voltmeter
7. Voltage Meter
8. High Voltage Meter
9. Ampere Meter (0.5 Class, DC 3mA Max.)
10. Demagentizing Coil
11. Philips Pattern Generator
12. Frequency Counter
13. Continuous Waveform Generator
14. 21 Pin Connector

III. TANK COIL ALIGNMENT

A. PREPARATION STEP (SEE FIG.2)

1. Connect OUTPUT lead of VIF Sweep Generator between SA101 Pin 4 and GND. (80dB)
2. Connect lead of FROM DET between TP106 and GND.
3. Supply DC +14V to ⊕ lead of D408.
4. Apply a +5.2V DC dummy AGC bias voltage to TP104.

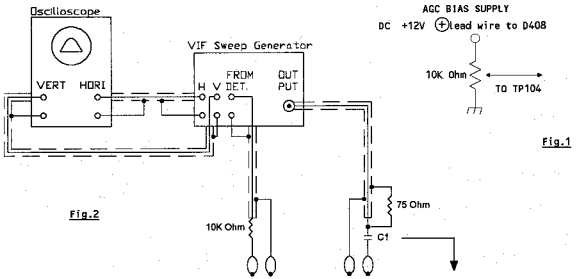


Fig.1

Fig.2

ALIGNMENT	FROM DET		OUT PUT		C1
TANK	TO TP106	TO GND	TO GND	TO SA101 Pin 4	100pF
VIF	TO TP106	TO GND	TO GND	TO TUNER TP	0.01uF
AFC	TO TP107	TO GND	TO GND	TO TUNER TP	0.01uF

B. ALIGNMENT STEP (SEE FIG.3)

1. Adjust T105, T106 to obtain response cause at 38.9MHz.

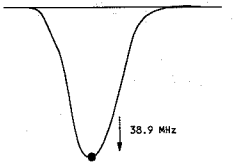


Fig.3

IV. VIF ALIGNMENT

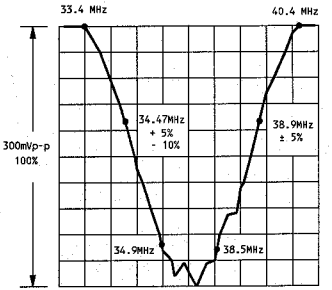
A. PREPARATION STEP

1. Connect output lead of VIF Sweep Generator between tuner test point TP and tuner case. (80dB)
2. Connect resistor (100 Ohm) between TP101 and TP102.
3. Supply DC +14V to ⊕ lead of D408.
4. Supply RF AGC bias voltage to TP104.

B. ALIGNMENT STEP

1. Connect the FROM DET to the TP106.
2. Adjust tuner converter coil to obtain the waveform as in Fig.4.

Fig.4



V. AFC ALIGNMENT

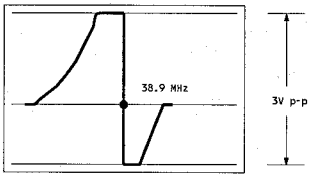
A. PREPARATION STEP

1. Connect RF AGC 5.2V bias voltage at TP104.
2. Remove the damping resistor (100 Ohm) at TP101, TP102.
3. Connect output lead of Continuous Waveform Generator to tuner point TP & tuner case. (85dB)
4. Connect lead of FROM DET between TP107 and GND.
5. Supply DC +14V to ⊕ lead of D408.

B. ALIGNMENT STEP

1. Adjust T106 make the picture carrier 38.9MHz is centered as in Fig.5.

Fig.5



VI. SIF ALIGNMENT

A. PREPARATION STEP (SEE FIG.6)

1. Connect output lead of SIF Sweep Generator between TP106 and GND.
2. Connect lead of FROM DET between TP105 and GND.
3. Supply DC +14V to ⊕ lead of D408.

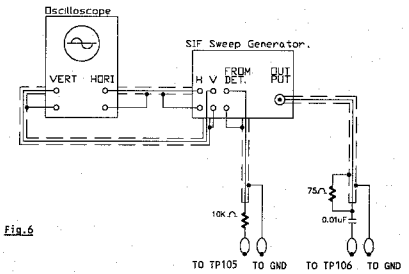
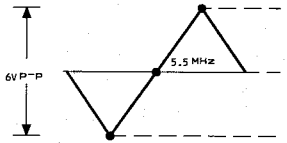


Fig.6

B. ALIGNMENT STEP

1. Adjust output of Sweep Generator to achieve 6Vp-p between markers of 100KHz.
2. Adjust T104 so that sound carrier is centered as in Fig.7.
3. Confirm the waveform as in Fig.7.
   NOTE : Input Level : 90dB.

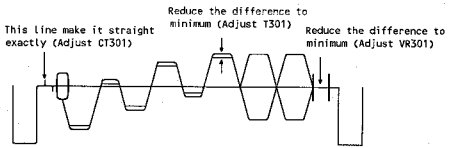
Fig.7



VII. COLOUR DEMODULATOR ALIGNMENT, DELAY LINE ALIGNMENT

1. Receive Philips Pattern.
2. Set Contrast control to minimum position.
3. Set Colour control to maximum position.
4. Connect Oscilloscope to TP301 (B-out).
5. Adjust CT301 to obtain the waveform as in Fig.8.
6. Adjust VR301 to obtain the waveform as in Fig.8.
7. Adjust T301 to obtain the waveform as in Fig.8.

Fig.8


This line make it straight exactly (Adjust CT301)
Reduce the difference to minimum (Adjust T301)
Reduce the difference to minimum (Adjust VR301)

VIII. B+ ADJUSTMENT

1. Connect the digital voltmeter to TP401.
2. Adjust semi-fixed resistor VR901 until meter reading DC 112.25V ± 0.25V.

IX. HORIZONTAL CIRCUIT ADJUSTMENT

1. Receive Monoscope Pattern input signal 80 dBuV.
2. IC301 (Pin 28,29) short by 1K Ohm resistor.
3. Adjust VR303 to obtain the picture running at center.
4. Remove the 1K Ohm resistor.

X. VERTICAL CIRCUIT ADJUSTMENT

1. Receive the Monoscope Pattern.
2. Connect the Frequency Counter between V-DEFLECTION YORK and GND.
3. Connect lead wire from TP106 TO GND.
4. Adjust V-HOLD (VR304) to the reading 45Hz ± 0.5Hz.
5. Remove lead wire TP106 TO GND.
6. Adjust V-SIZE (VR401) control to obtain a normal picture.

XI. WHITE BALANCE ADJUSTMENT

1. Receive a black and white picture signal.
2. Turn the red, green and blue LOW LIGHT (VR501, VR502, VR504) controls to middle position and turn the DRIVE (VR503, VR505) control to middle position.
3. Turn the Screen control on the FBT to minimum position.
4. Set the Sub-Brightness (VR305) control to middle position, then set the Contrast control and Brightness control, Colour control to minimum position.
5. CN403 (Pin 1,2) with Join together.
6. Connect volt meter b etween (R508) and ground, and adjust Brightness control to the reading of DC 138V (±2V). If DC 138V cannot be obtain, adjust the Sub-Brightness control (VR305).
7. Slowly turn the Screen control clockwise to the point where a horizontal line just illuminates.
8. Adjust VR501 to get a red horizontal line on CRT.
9. Adjust VR502 to get a yellow horizontal line on CRT.
10. Adjust VR504 to get a white horizontal line on CRT.
11. Take the joiner out of CN403.
12. Adjust Drive (VR503, VR505) control to obtain a uniform white picture.

XII. FOCUS ADJUSTMENT

1. Set Contrast control to maximum position and Brightness control to middle position.
2. Adjust Focus control (on the FBT) to obtain a sharpest picture on the CRT.

XIII. RF AGC

1. Receive the signal of BAND-III (VHF HIGH) channel and set the AFC switch to 'ON' position.
2. Set the input field strength in 62 ± 3dB.
3. Adjust RF AGC control (VR101) to the point where noise is disappeared.

XIV. SUB-BRIGHTNESS ALIGNMENT

1. Receive the Monoscope Pattern
2. Set controls as follows :
   BRIGHTNESS control ..... MID. position
   CONTRAST control ..... MID. position
   COLOUR control ..... MID. position
3. Adjust SUB-BRIGHTNESS (VR305) control to get the nine step of the GREY SCALE in the Monoscope Pattern.

XV. COLOUR PURITY ADJUSTMENT (SEE FIG.9)

BEFORE ALL ADJUSTMENT DESCRIBED BELOW ARE ATTEMPTED, V-HOLD, H-HOLD, V-HIGH, B+ VOLTAGE AND FOCUSING ADJUSTMENT MUST BE COMPLETED.

1. Place the TV receiver facing NORTH or SOUTH.
2. Plug in TV receiver and turn in on.
3. Operate the TV receiver over 30 minutes.
4. Fully degauss the TV receiver by using an external degaussing coil.
5. Receive a crosshatch pattern and adjust the static convergence, control roughly.
6. Loosen the clamp screw of the deflection yoke and pull the deflection yoke towards you.
7. Fully turn the red and blue Drive (VR503, VR505) controls counter-clockwise.
8. Adjust the purity magnets so that green field is obtained at the center of the screen.
9. Slowly push the deflection yoke towards bell of CRT and set it where a uniform green field is obtained.
10. Tighteen the clamp screw of the deflection yoke.

XVI. ON SCREEN ADJUSTMENT

1. Receive the Monoscope Pattern.
2. Adjust ON SCREEN (VR601) for adjust the lettering to center of CRT.

XVII. CONVERGENCE ADJUSTMENT (SEE FIG.9)

1. Receive a dotted pattern.
2. Unfix the convergence magnet clamper and align red with blue dots at the center of the screen by rotating (R,B) static convergence magnets.
3. Align Red/Blue with green dots at the center of the screen by rotating (RB-G) static convergence magnet.
4. Fix the convergence magnets by turning the clamper.
5. Remove the DY wedges and slightly tilt the deflection yoke horizontally and vertically to obtain the good overall convergence.
6. Fix the deflection yoke by wedges.
7. If purity error is found, follow "PURITY ADJUSTMENT" instructions.

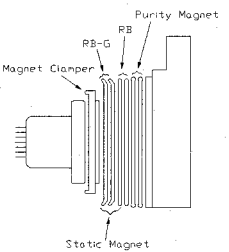
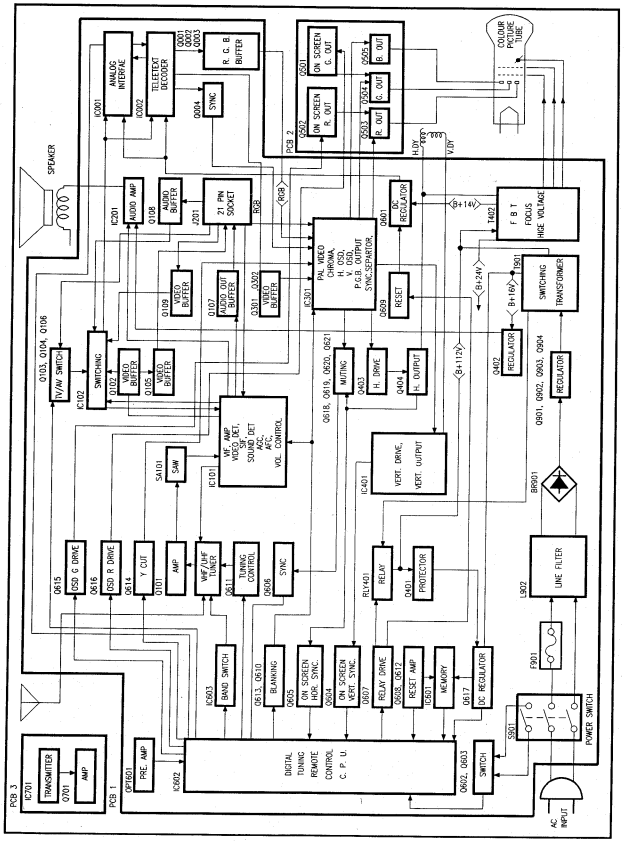


Fig.9

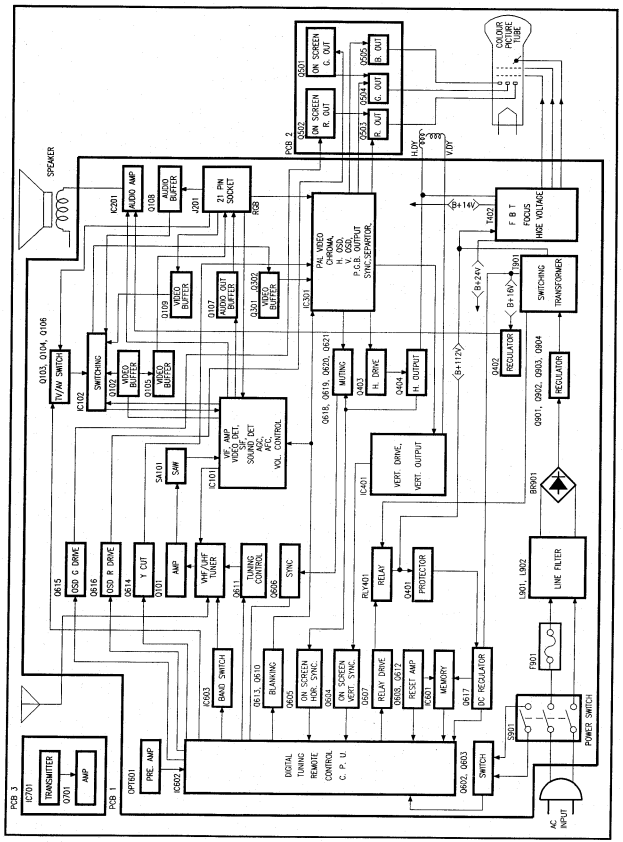
XVIII. TELETEXT PICTURE ALIGNMENT

1. Receive a pattern with teletext signal.
2. Select a teletext page.
3. Connect D.C. voltage meter to TP303 (IC001 Pin 28) and GND.
4. Adjust T001 to obtain 0.6 ± 0.05V.

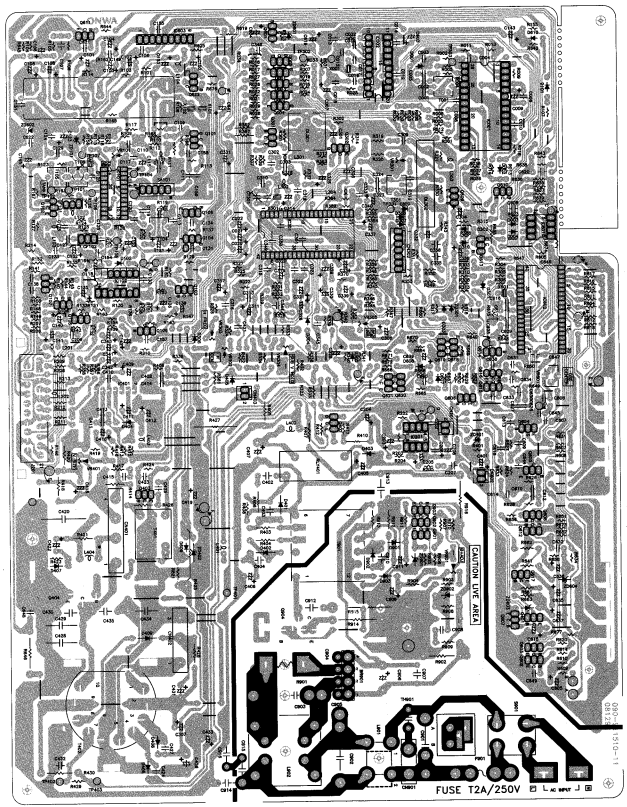
Blockdiagramm
Block diagram



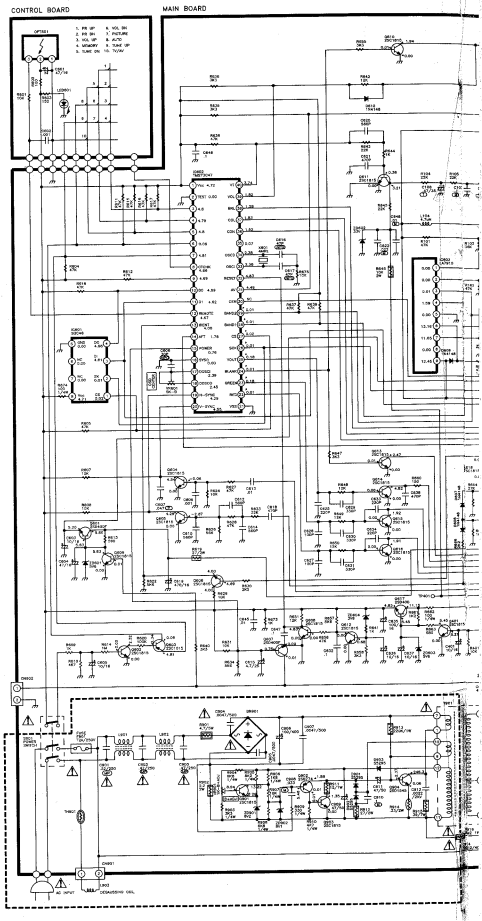
Blockdiagramm
Block diagram

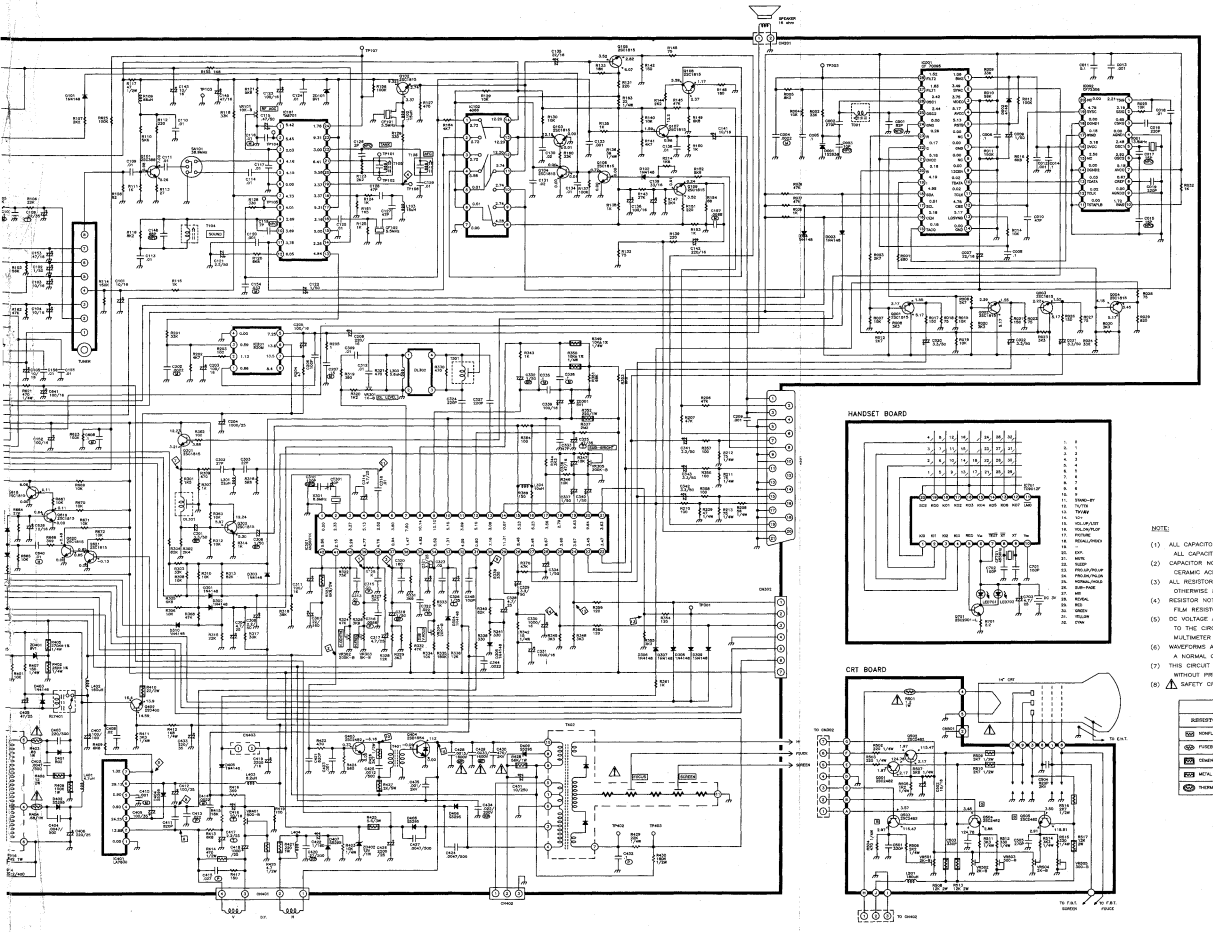


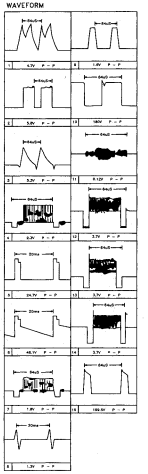
Bestückungsplan Grundplatine (Lötseite)
Component diagram of main board (bottom view)



Schaltbild Grundplatine STV 3680
Circuit diagram main board STV 3680







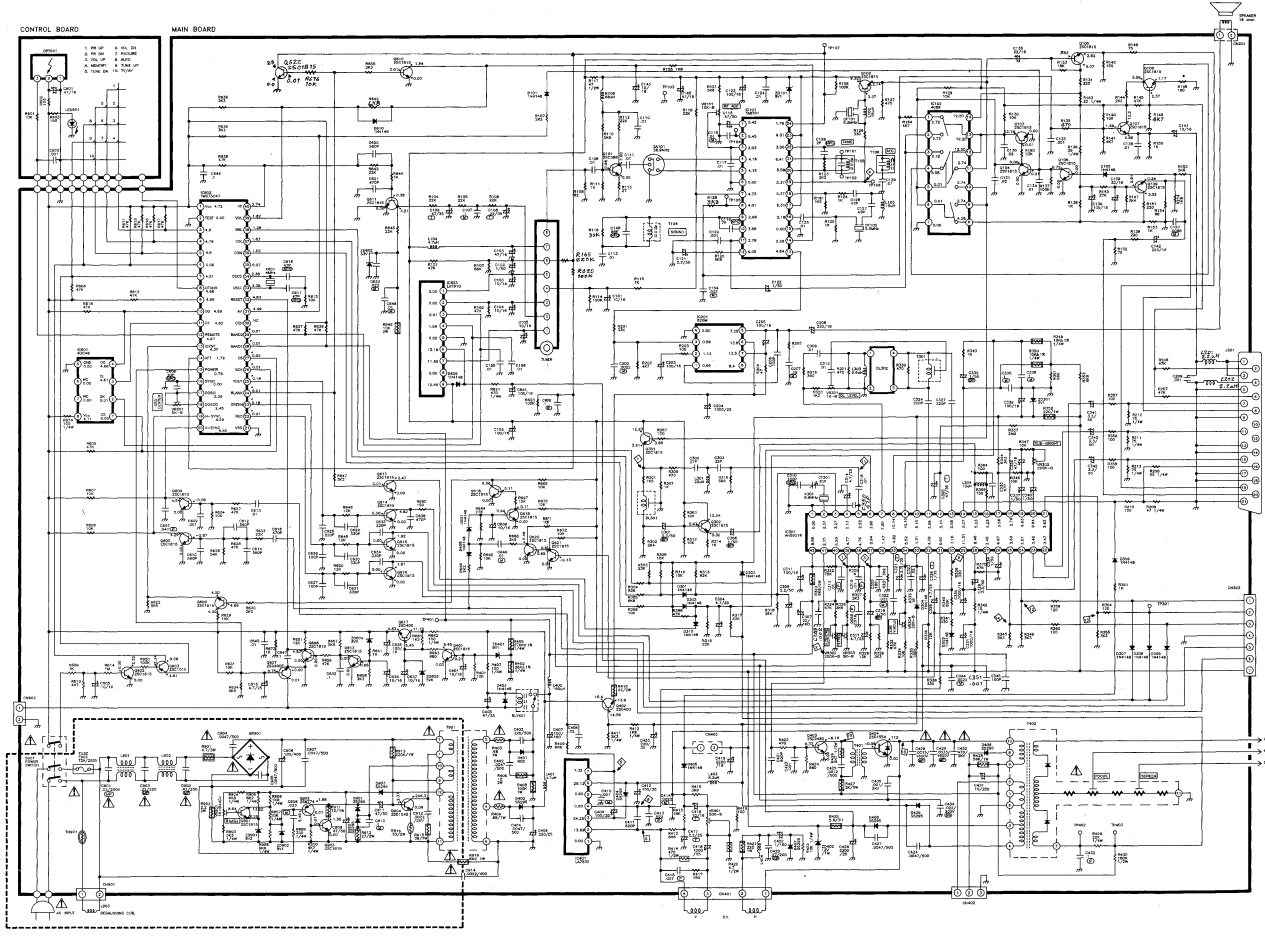
NOTE:

(1) ALL CAPACITORS ARE IN uF UNLESS OTHERWISE NOTED. ALL CAPACITORS ARE 50WV UNLESS OTHERWISE NOTED.
(2) CAPACITOR NOT SPECIFICALLY DESIGNATED ARE CERAMIC ACPACITORS.
(3) ALL RESISTORS ARE IN OHM 1/16 WATT UNLESS OTHERWISE NOTED.
(4) RESISTOR NOT SPECIFICALLY DESIGNATED ARE CARBON FILM RESISTORS.
(5) DC VOLTAGE ARE MEASURED FROM POINT INDICATED TO THE CIRCUIT GROUND WITH A DIGITAL MULTIMETER TEST.
(6) WAVEFORMS ARE TAKEN WITH SETTING CONTROLS TO A NORMAL CONDITIONS (COLOR PHILIPS PATTEN).
(7) THIS CIRCUIT DIAGRAM IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.
(8) ⚠ SAFETY CRITICAL DEVICE.

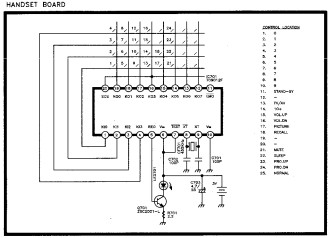
CIRCUIT SYMBOLS

RESISTOR	CAPACITOR	
NONFLAMMABLE	ELECTROLYTIC	POLYPROPYLENE
FUSIBLE	BI-POLAR ELECTROLYTIC	MYLAR
CEMENT	TANTALUM	
METAL OXIDE	METALLIZED POLYESTER	
THERMISTOR	POLYESTER FILM	

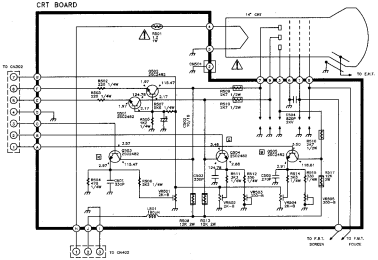
Schaltbild Grundplatine
Circuit diagram main board

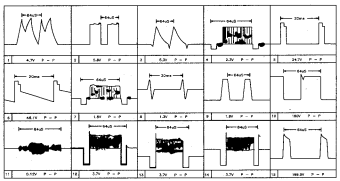


HANDSET BOARD



CRT BOARD





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CIRCUIT SYMBOLS

RESISTOR		CAPACITOR	
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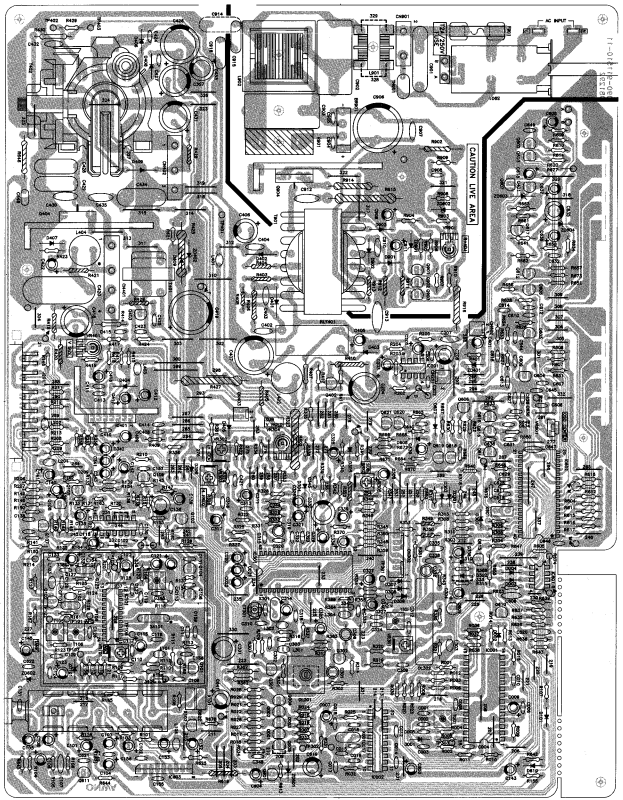
	FUSIBLE	MULTILAYER ELECTRONIC	MYLAR
	CEMENT	TANTALUM	
	METAL OXIDE	METALLIZED POLYESTER	
	THERMISTOR	POLYESTER Film	

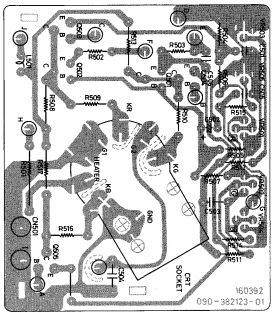
Bestückungsplan Grundplatine (Bestückungsseite)
Component diagram of main board (top view)



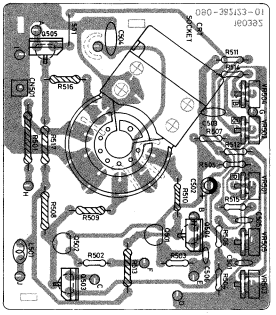
Bestückungsplan
Component diagram

Bildrohrplatine
CRT board

(Bottom view)

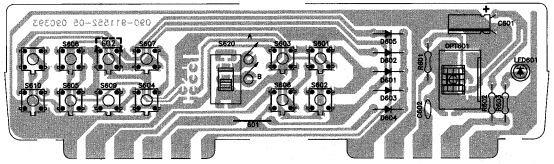


(Top view)

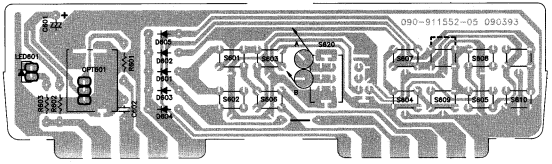


Bedienteilplatine
Function board

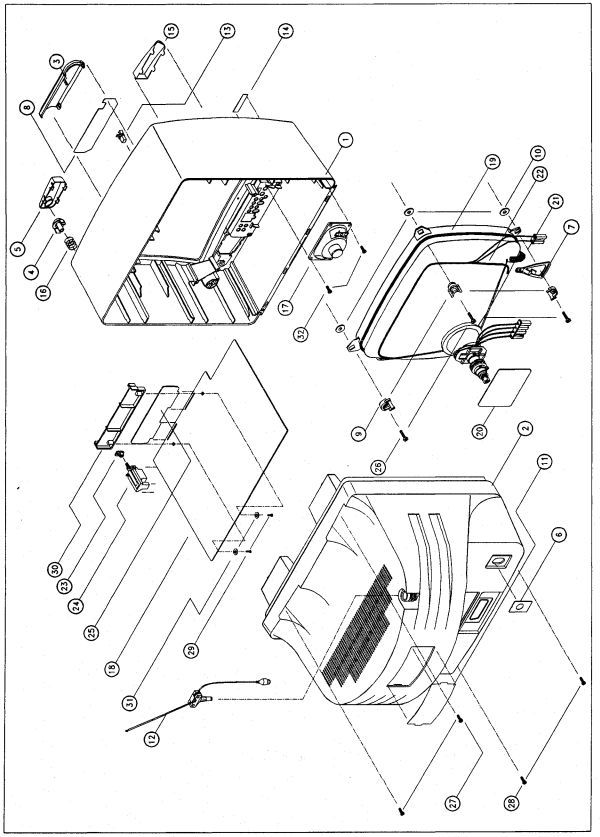
(Top view)



(Bottom view)



Explosionsdarstellung
Exploded view diagram



Ersatzteilliste
Spare parts list

Achtung: Bestellhinweise (letzte Seite) beachten!
Important: Hints for order on last page.

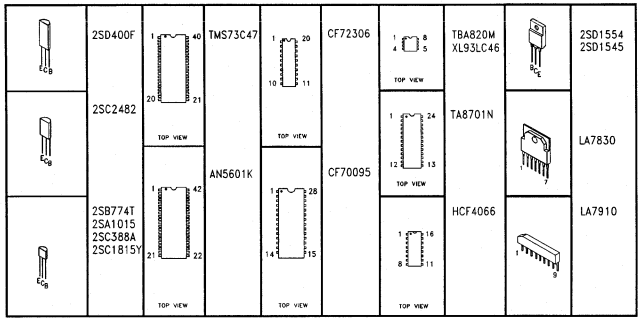
Best.-Nr. Part No.	Bezeichnung	Description	Pos.	Preisgruppe Price-key
70 292 00	Fernbedienungsgeber RC202	Remote control RC202		D6
70 738 00	Fernbedienungsgeber RC203	Remote control RC203		D7
70 500 00	Batt.-Fachdeckel STV 3680	Battery cover remote		A5
70 569 00	Batt.-Fachdeckel STV 3663	Battery cover remote		A5
70 517 00	IC CF 70095 ZA	IC CF 70095 ZA	IC 001	D5
61 541 00	IC CF 72306	IC CF 72306	IC 002	B8
70 512 00	IC TA 8701 AN	IC TA 8701 AN	IC 101	B7
52 577 00	IC 4066	IC 4066	IC 102	A5
66 110 00	IC TBA820M/KA2201N	IC TBA820M/KA2201N	IC 201	A7
70 514 00	IC AN 5601 K	IC AN 5601 K	IC 301	C5
29 858 00	IC LA 7830	IC LA 7830	IC 401	C0
70 516 00	IC XLS93LC46P/ST93C46A	IC XLS93LC46P/ST93C46A	IC 601	B4
70 515 00	IC TMS 73C47	IC TMS 73C47	IC 602	C8
60 221 00	IC LA 7910	IC LA 7910	IC 603	B1
48 461 00	Transistor 2SC1923/2SC388	Transistor 2SC1923/2SC388	Q 101	A2
44 763 00	Transistor 2SD400F/2SD467C	Transistor 2SD400F/2SD467C	Q 402	A2
65 711 00	Transistor 2 SC 2482	Transistor 2 SC 2482	Q 403	A3
70 724 00	Transistor 2SD1554/2SD2331	Transistor 2SD1554/2SD2331	Q 404	A9
65 711 00	Transistor 2 SC 2482	Transistor 2 SC 2482	Q 501	A3
65 711 00	Transistor 2 SC 2482	Transistor 2 SC 2482	Q 502	A3
65 711 00	Transistor 2 SC 2482	Transistor 2 SC 2482	Q 503	A3
65 711 00	Transistor 2 SC 2482	Transistor 2 SC 2482	Q 504	A3
65 711 00	Transistor 2 SC 2482	Transistor 2 SC 2482	Q 505	A3
44 763 00	Transistor 2SD400F/2SD467C	Transistor 2SD400F/2SD467C	Q 601	A2
12 959 00	Transistor 2 SA 1015	Transistor 2 SA 1015	Q 603	A6
12 959 00	Transistor 2 SA 719 R	Transistor 2 SA 719 R	Q 603	A6
12 959 00	Transistor 2 SA 933 Q	Transistor 2 SA 933 Q	Q 603	A6
12 959 00	Transistor KTA 1015	Transistor KTA 1015	Q 603	A6
44 763 00	Transistor 2SD400F/2SD467C	Transistor 2SD400F/2SD467C	Q 607	A2
44 763 00	Transistor 2SD400F/2SD467C	Transistor 2SD400F/2SD467C	Q 617	A2
65 710 00	Transistor 2 SA 933 S	Transistor 2 SA 933 S	Q 902	A3
65 710 00	Transistor 2 SB 774 T	Transistor 2 SB 774 T	Q 902	A3
70 519 00	Transistor 2 SD 1545	Transistor 2 SD 1545	Q 904	B5
21 736 00	Transistor 2 SC 1815 Y	Transistor 2 SC 1815 Y	div.	A6
70 520 00	Diode IS 2638 AFC	Diode IS 2638 AFC	D 001	A8
65 700 00	Diode RG2	Diode RG2	D 401	A6
11 241 00	Diode 1N4148	Diode 1N4148	div.	A2
46 649 00	Diode S5295G/BYT52K/DFD05TG	Diode S5295G/BYT52K/DFD05TG	div.	A7
65 607 00	T-Diode 9,1 V	Z-Diode 9.1 V	ZD 101	A2
48 845 00	Z-Diode 5,1 V	Z-Diode 5.1 V	ZD 301	A1
65 607 00	Z-Diode 9,1 V	Z-Diode 9.1 V	ZD 401	A2
06 227 00	Z-Diode 12 V	Z-Diode 12 V	ZD 402	A3
21 352 00	Z-Diode 5,6 V	Z-Diode 5.6 V	ZD 601/603	A3
66 048 00	Z-Diode KA 33 V	Z-Diode KA 33 V	ZD 602	A4
31 904 00	Z-Diode 3,9 V	Z-Diode 3.9 V	ZD 604	A1
13 557 00	Z-Diode 8,2 V	Z-Diode 8.2 V	ZD 901	A3
65 607 00	Z-Diode 9,1 V	Z-Diode 9.1 V	ZD 902	A2
70 451 00	Brückengleichrichter D2SBA	Rectifier D2SBA	BR 901	A8
29 597 00	LED rot	LED red	LED 601	A5
66 114 00	Widerstand 6k8 5W 5%	Resistor 6k8 5W 5%	R 323	A4
66 007 00	Sich.-Widerstand R68 1W	Fuse resistor R68 1W	R 403	A3
66 007 00	Sich.-Widerstand R68 1W	Fuse resistor R68 1W	R 404	A3
15 444 00	Widerstand 12R 2W 5%	Resistor 12R 2W 5%	R 406	A2
37 632 00	Widerstand 22R 2W 5%	Resistor 22R 2W 5%	R 410	A2
40 132 00	Sich.-Widerstand 470R 1/2W	Fuse resistor 470R 1/2W	R 414	A2
48 602 00	Sich.-Widerstand 4R7 1/2W	Fuse resistor 4R7 1/2W	R 420	A1
66 113 00	Widerstand 5R6 3W 5%	Resistor 5R6 3W 5%	R 425	A3
23 630 00	Sich.-Widerstand 2k7 1/2W	Fuse resistor 2k7 1/2W	R 426	A1
66 008 00	Widerstand 2k 5W 5%	Resistor 2k 5W 5%	R 427	A4
40 129 00	Sich.-Widerstand 1R2 1W 5%	Fuse resistor 1R2 1W 5%	R 501	A4
66 134 00	Widerstand 12k 2W 5%	Resistor 12k 2W 5%	R 508	A1
23 630 00	Sich.-Widerstand 2k7 1/2W	Fuse resistor 2k7 1/2W	R 509	A1
23 630 00	Sich.-Widerstand 2k7 1/2W	Fuse resistor 2k7 1/2W	R 510	A1
66 134 00	Widerstand 12k 2W 5%	Resistor 12k 2W 5%	R 513	A1
23 630 00	Sich.-Widerstand 2k7 1/2W	Fuse resistor 2k7 1/2W	R 516	A1
66 134 00	Widerstand 12k 2W 5%	Resistor 12k 2W 5%	R 517	A1
65 718 00	Widerstand 27R 2W 5%	Resistor 27R 2W 5%	R 619	A1
48 465 00	Widerstand 10k 2W 5%	Resistor 10k 2W 5%	R 646	A1
48 531 00	Widerstand 4R7 5W 5%	Resistor 4R7 5W 5%	R 901	A2
70 721 00	Widerstand 2R2 3W 5%	Resistor 2R2 3W 5%	R 902	A0
65 718 00	Widerstand 27R 2W 5%	Resistor 27R 2W 5%	R 912	A1
70 459 00	Sich.-Widerstand R33 2W	Fuse resistor R33 2W	R 914	A8
65 719 00	Widerstand 39R 7W 5%	Resistor 39R 7W 5%	R 915	A7
65 720 00	Widerstand 8M2 VDE	Resistor 8M2 VDE	R 916	A4
65 715 00	PTC-Widerstand	PTC thermistor	TH 901	A9
66 137 00	Kondensator 0,1µF 100 V	Capacitor 0.1µF 100 V	C 107	A1
65 790 00	Elko 22µF 160 V	Elec. cap. 22µF 160 V	C 307	A4
66 137 00	Kondensator 0,1µF 100 V	Capacitor 0.1µF 100 V	C 335	A2
66 137 00	Kondensator 0,1µF 100 V	Capacitor 0.1µF 100 V	C 338	A2
65 716 00	Kondensator 4,7 nF 500 V	Capacitor 4.7nF 500 V	C 402	A2

Ersatzteilliste
Spare parts list

Achtung: Bestellhinweise (letzte Seite) beachten!
Important: Hints for order on last page.

Best.-Nr. Part No.	Bezeichnung	Description	Pos.	Preisgruppe Price-key
65 714 00	Kondensator 220pF 500 V	Capacitor 220pF 500 V	C 403	A2
65 716 00	Kondensator 4,7nF 500 V	Capacitor 4.7nF 500 V	C404	A2
24 197 00	Elko 100µF 160 V	Elec. cap. 100µF 160 V	C 407	B2
66 013 00	Kondensator 0,27µF 200 V	Capacitor 0.27µF 200 V	C 420	A7
44 878 00	Elko 1µF 160 V	Elec. cap. 1µF 160 V	C 422	A9
65 716 00	Kondensator 4,7nF 500 V	Capacitor 4.7nF 500V	C 424	A2
65 713 00	Kondensator 1200pF 500 V	Capacitor 1200pF 500 V	C 425	A2
65 716 00	Kondensator 4,7nF 500 V	Capacitor 4.7nF 500 V	C 427	A2
70 723 00	Kondensator 0,0015µF 1600 V	Capacitor 0.0015µF 1600 V	C 428	A2
66 215 00	Kondensator 3,3nF 1600 V	Capacitor 3.3nF 1600 V	C 429	A9
34 836 00	Kondensator 470pF 2kV	Capacitor 470pF 2kV	C 430	A3
38 714 00	Elko 10µF 250 V	Elec. cap. 10µF 250 V	C 431	A4
45 113 00	Kondensator 0,022µF 200 V	Capacitor 0.022µF 200 V	C 434	A3
26 648 00	Kondensator 1nF 2kV	Capacitor 1nF 2kV	C 435	A3
40 107 00	Kondensator 820pF 2kV	Capacitor 820pF 2kV	C 504	A3
66 137 00	Kondensator 0,1µF 100 V	Capacitor 0.1µF 100 V	C 608	A2
46 633 00	Kondensator 0,22µF 250 V	Capacitor 0.22µF 250 V	C 901	B2
45 121 00	Kondensator 0,47µF 250 V	Capacitor 0.47µF 250 V	C 902	B3
45 121 00	Kondensator 0,47µF 250 V	Capacitor 0.47µF 250 V	C 903	B3
65 716 00	Kondensator 4,7nF 500 V	Capacitor 4.7nF 500 V	C 904	A2
65 716 00	Kondensator 4,7nF 500 V	Capacitor 4.7nF 500 V	C 905	A2
32 084 00	Elko 100µF 400 V	Elec. cap. 100µF 400 V	C 906	B0
65 716 00	Kondensator 4,7nF 500 V	Capacitor 4.7nF 500 V	C 907	A2
66 137 00	Kondensator 0,1µF 100 V	Capacitor 0.1µF 100 V	C 910	A2
45 110 00	Kondensator 2,2nF 2kV	Capacitor 2.2nF 2kV	C 912	A3
37 932 00	Kondensator 2,2nF 400 V	Capacitor 2.2nF 400 V	C 914	A7
60 287 00	Trimmer 30pF	Trimmer 30pF	CT 301	A4
65 741 00	Relais 12 V	Relay 12 V	RLY 401	B9
65 735 00	Tastschalter	Tact switch	S 601-610	A4
65 732 00	Netzschalter	Power switch	S 901	C2
70 511 00	Bildrohrsockel HPS 2171	CRT socket HPS 2171	J	B4
45 501 00	Scart-Buchse	Scart socket	J 201	B8
06 785 00	Netzkabel	AC line cord		A9
70 726 00	Tuner UVE33-W21	Tuner		E2
70 518 00	IR-Empfänger CP14781R	IR-receiver CP14781R	OPT 601	B9
37 532 00	Filter Keramik TPS 5,5MB	Trab filter TBS 5.5MB	CF 101	A5
24 289 00	Filter Keramik SFE 5,5MB	Ceramik filter SFE 5.5MB	CF 102	B4
70 525 00	Verzögerungsltg. ELT10Z216	Delay line ELT10Z216	DL 301	B4
70 526 00	Verzögerungsltg. PDL-644KIP	Delay line PDL-644KIP	DL 302	B6
70 526 00	Verzögerungsltg. YCS-EN645	Delay line YCS-EN645	DL 302	B6
70 526 00	Verzögerungsltg. YTS-8B2	Delay line YTS-8B2	DL 302	B6
66 020 00	Drossel 160µH	Coil 160µH	L 402	B0
66 021 00	Drossel 65µH	Coil 65µH	L 404	A9
66 209 00	Drossel Netz	Choke transformer	L 901	B7
65 725 00	Netzdrossel	Line filter	L 902	B5
65 724 00	Entmagnetisierungsspule	Degaussing coil	L 903	B3
70 524 00	Filter OFW-G1962M	Saw filter OFW-G1962M	SA 101	B5
70 467 00	Spule JFT-TV 1046	Coil JFT-TV 1046	T 001	A4
66 226 00	Filter	Filter	T 104	A4
66 225 00	Filter	Filter	T 105	A5
66 225 00	Filter	Filter	T 106	A5
66 029 00	Filter	Filter	T 301	A4
65 728 00	Treibertrafo	Hor. drive transformer	T 401	A6
70 725 00	Zeilentrafo FCK-14A019	Flyback transformer	T 402	D5
70 473 00	Netztrafo ML 4025	Switching transformer	T 901	C5
38 204 00	Quarz 13,875 MHz	Crystal 13.875 MHz	X 001	A8
23 096 00	Quarz 8,867238 MHz	Crystal 8.867238 MHz	X 301	B4
46 839 00	Keramik-Osz. CSA 4,00MG	Ceramik reson. CSA 4.00MG	X 601	A6
70 729 00	Gehäusefront	Cab. front	01E	D1
70 730 00	Rückwand	Cab. back	02E	C6
70 737 00	Bedienteilklappe STV 3663	Panel door STV 3663	03E	A8
70 731 00	Bedienteilklappe STV 3680	Panel door STV 3680	03E	A8
70 733 00	Knopf Netzschalter	Power knob	04E	A3
70 732 00	Sensor-Fenster rot	Sensor lens red	05E	A6
66 044 00	Befestigungsscheibe Röhre	Clip CRT	09E	A1
65 699 00	Teleskopantenne	Rod. antenna	12E	B8
66 035 00	Rastmechanik Bed.-Klappe	Door locker	13E	A2
70 735 00	Abdeckgitter Lautsprecher	Speaker grill	15E	B2
70 503 00	Feder Netzschalterknopf	Spring power knob	16E	A5
70 728 00	Lautsprecher 16 Ohm 2W	Speaker 16 Ohm 2W	17E	B4
65 736 00	Bildröhre 370 KRB22TC18	Colour picture tube	19E	G3
70 432 00	Adapter für Netzschalter	Adaptor for power switch	23E	A0
70 202 00	Bedienungsanleitung STV 3663	User manual STV 3663		
70 258 00	Bedienungsanleitung STV 3680	User manual STV 3680		
70 722 00	Service-Anl. STV 3663/3680	Service manual STV 3663/3680		
66 527 00	Karton STV 3680/3663	Carton		C1
70 734 00	Styropor-Verpackung	Poly foam		B8

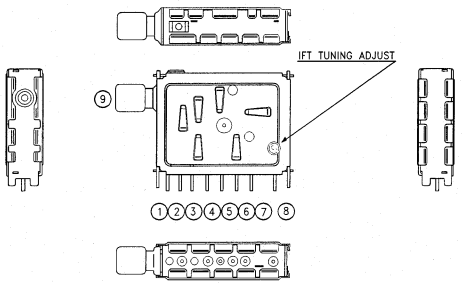
Anschlußzeichnung Transistor und IC
Transistor and IC Identify



PICTORIAL VIEW OF TUNER

TERMINAL NO.	1	2	3	4	5	6	7	8	9
TERMINAL NAME	BU	VT	BH	AGC	BL	AFT	BM	IF	V/U ANT

SUPPLY VOLTAGE (V)				
TERM.	ch.	VHF LO	VHF HI	UHF
7	BM	12	12	12
5	BL	12	OPEN	12
3	BH	OPEN	12	OPEN
1	BU	OPEN	OPEN	12



Technische Daten
Specification

SYSTEM		: PAL-B/G	
DESTINATION		: W.GERMANY	ITALY
CHANNEL COVERAGE	VHF LOW	: E2 - E4, SS1 - SS3	CH A - C CH
		S1 - S2	CH
	VHF HIGH	: E5 - E12, S3 - S20	CH D - H CH
	UHF	: 21 - 69	CH 21 - 69 CH
FREQUENCY RANGE	UHF LOE	: 48.25 - 112.25	MHz
	VHF HIGH	: 119.25 - 294.25	MHz
	UHF	: 471.25 - 855.25	MHz
SCANNING	LINES	: 625	LINES
	HORIZONTAL	: 15625	Hz
	VERTICAL	: 50	Hz
IF FREQUENCY	VIDEO	: 38.9	MHz
	SOUND	: 33.4	MHz
	CHROMA	: 34.47	MHz
VISION/SOUND SEPARATION		: 5.5	MHz
SENSITIVITY	VHF LOW	: 32	uV
	VHF HIGH	: 56	uV
	UHF	: 80	uV
OUTPUT POWER	MAXIMUM	: 900	mW
	10% THD	: 700	mW
C.R.T.		: 14" (36 cm) Diagonal, 22.5 mm Neck Diameter 90° Deflection Angle	
SPEAKER		: 50 mm x 90 mm, 16 Ohm	
ANTENNA IMPEDANCE		: 75	Ohm
POWER CONSUMPTION		: 70	Watts
VIDEO INPUT		: 1vp-P (POSITIVE VIDEO) 75 OHm IMPEDANCE	
AUDIO INPUT		: 0.5V r.m.s. (1 KHz) 47K OHm IMPEDANCE	

Bestellhinweise
Hints for order

Bitte bei Ersatzteilbestellung die genaue Bezeichnung und **Ident-Nr. (siehe Typenschild)** des Gerätes sowie Bestell-Nummer und Positions-Nummer des Ersatzteils angeben.

For ordering of spare parts please state exact description and **ident.-no. of unit (see silver rating label on the backside of unit)** as well as part no. and position no. of required spare parts.

Benutzen Sie:

EINKAUFPILOT ★317298 #

oder

Telefax: 08245/51326

Der Umwelt zuliebe!

Diese Serviceanweisung wurde auf chlorfrei gebleichtem Papier gedruckt.

Preisänderungen / technische Änderungen vorbehalten.
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7072200 HD 6/0110/5000/06/93